

Claims

[c1] What is claimed is:

1.A method for decimating a first image data filtered by a Bayer pattern color filter array, the first image data comprising a plurality of patterns arranged in an array, each pattern comprising a first color pixel, the method comprising:

providing first color pixel weighting values of the plurality of patterns of the first image data; and
summing up the first color pixel weighting values to generate a first color pixel of a second image data decimated from the first image data.

[c2] 2.The method of claim 1 further comprising providing a plurality of first color pixel weighting factors, wherein the first color pixel weighting value is the product of the first color pixel weighting factor and the corresponding first color pixel signal of the first image data.

[c3] 3.The method of claim 2 wherein the sum of the plurality of first color pixel weighting factors is 1.

[c4] 4.The method of claim 1 wherein the first color pixel is a red pixel.

- [c5] 5.The method of claim 1 wherein the first color pixel is a green pixel.
- [c6] 6.The method of claim 1 wherein the first color pixel is a blue pixel.
- [c7] 7.The method of claim 1 wherein each pattern comprises a red pixel, two green pixels, and a blue pixel.